# Safety Data Sheet

*According to Regulation (EC) No 1907/2006*

## Clearklens Cleansinald SC VH9

**Revision:** 2019-11-28 **Version:** 05.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1 Product identifier**
**Trade name:** Clearklens Cleansinald SC VH9

**1.2 Relevant identified uses of the substance or mixture and uses advised against**
**Identified uses:**
For professional and industrial use only.
AISE-P314 - Surface disinfectant. Manual process
AISE-P810 - Disinfection product. Semi-automatic process
**Uses advised against:** Uses other than those identified are not recommended

**1.3 Details of the supplier of the safety data sheet**
Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

**Contact details**
Diversey Ltd
Weston Favell Centre, Northampton NN3 8PD, United Kingdom
Tel: 01604 405311, Fax: 01604 406809
Regulatory Email: customerservice.uk@diversey.com

**1.4 Emergency telephone number**
Seek medical advice (show the label or safety data sheet where possible)
For medical or environmental emergency only:
call 0800 052 0185

## SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture**
Skin Corr. 1B (H314)
Acute Tox. 4 (H302)
Eye Dam. 1 (H318)
Aquatic Acute 1 (H400)
Aquatic Chronic 2 (H411)
Met. Corr. 1 (H290)

**2.2 Label elements**



**Signal word:** Danger.

Contains alkyldimethylbenzylammoniumchloride (Benzalkonium Chloride),N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (Laurylamine Dipropylenediamine)

**Hazard statements:**
H314 - Causes severe skin burns and eye damage.
H302 - Harmful if swallowed.
H410 - Very toxic to aquatic life with long lasting effects.
H290 - May be corrosive to metals.

**Precautionary statements:**
P260 - Do not breathe vapours.
P280 - Wear protective gloves, protective clothing and eye or face protection.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTRE, doctor or physician.

**2.3 Other hazards**
No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

| Ingredient(s) | EC number | CAS number | REACH number | Classification | Notes | Weight percent |
|---|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | 270-325-2 | 68424-85-1 | [6] | Skin Corr. 1B (H314)<br>Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | | 10-20 |
| tetrasodium ethylene diamine tetraacetate | 200-573-9 | [1] | [1] | Acute Tox. 4 (H302)<br>Acute Tox. 4 (H332)<br>STOT RE 2 (H373)<br>Eye Dam. 1 (H318) | | 3-10 |
| alkyl alcohol ethoxylate | [4] | 68439-46-3 | [4] | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318) | | 3-10 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | 219-145-8 | 2372-82-9 | [6] | Acute Tox. 3 (H301)<br>Skin Corr. 1B (H314)<br>STOT RE 2 (H373)<br>Eye Dam. 1 (H318)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | | 1-3 |
| sodium hydroxide | 215-185-5 | 1310-73-2 | 01-2119457892-27 | Skin Corr. 1A (H314)<br>Met. Corr. 1 (H290) | | 0.1-1 |

Workplace exposure limit(s), if available, are listed in subsection 8.1.
[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.
[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.
[11] Substance of Very High Concern (SVHC)
[6] Exempted: biocidal active. See Article 15a of Regulation (EC) No 1907/2006.
For the full text of the H and EUH phrases mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

**4.1 Description of first aid measures**

**General Information:** Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident. If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

**Inhalation:** Get medical attention or advice if you feel unwell.

**Skin contact:** Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician.

**Eye contact:** Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

**Ingestion:** Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

**Self-protection of first aider:** Consider personal protective equipment as indicated in subsection 8.2.

**4.2 Most important symptoms and effects, both acute and delayed**

**Inhalation:** No known effects or symptoms in normal use.

**Skin contact:** Causes severe burns.

**Eye contact:** Causes severe or permanent damage.

**Ingestion:** Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

**4.3 Indication of any immediate medical attention and special treatment needed**
No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**
Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

**5.2 Special hazards arising from the substance or mixture**

No special hazards known.

**5.3 Advice for firefighters**
As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable protective clothing, gloves and eye/face protection.

**6.2 Environmental precautions**
Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

**6.3 Methods and material for containment and cleaning up**
Ensure adequate ventilation. Dyke to collect large liquid spills. Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

**6.4 Reference to other sections**
For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**
**Measures to prevent fire and explosions:**
No special precautions required.

**Measures required to protect the environment:**
For environmental exposure controls see subsection 8.2.

**Advices on general occupational hygiene:**
Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not breathe vapours. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**
Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. Keep from freezing.
For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**7.3 Specific end use(s)**
No specific advice for end use available.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**
**Workplace exposure limits**

Air limit values, if available:

| Ingredient(s) | UK - Long term value(s) | UK - Short term value(s) |
|---|---|---|
| sodium hydroxide | | 2 mg/m³ |

Biological limit values, if available:

**Recommended monitoring procedures, if available:**

Additional exposure limits under the conditions of use, if available:

**DNEL/DMEL and PNEC values**
**Human exposure**
DNEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | - | - | - | 3.4 |
| tetrasodium ethylene diamine tetraacetate | - | - | - | 25 |
| alkyl alcohol ethoxylate | - | - | - | - |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | - | - | - | 0.2 |
| sodium hydroxide | - | - | - | - |

DNEL dermal exposure - Worker

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | - | - | - | 5.7 |

| | | | | |
|---|---|---|---|---|
| tetrasodium ethylene diamine tetraacetate | - | - | - | - |
| alkyl alcohol ethoxylate | - | - | - | - |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | - | - | - | 0.91 |
| sodium hydroxide | 2 % | - | - | - |

DNEL dermal exposure - Consumer

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | - | - | - | 3.4 |
| tetrasodium ethylene diamine tetraacetate | - | - | - | - |
| alkyl alcohol ethoxylate | - | - | - | - |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | - | - | - | 0.54 |
| sodium hydroxide | 2 % | - | - | - |

DNEL inhalatory exposure - Worker (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | - | - | - | 3.96 |
| tetrasodium ethylene diamine tetraacetate | 3 | 3 | 1.5 | 1.5 |
| alkyl alcohol ethoxylate | - | - | - | - |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | No data available | No data available | 2.35 |
| sodium hydroxide | No data available | - | 1 | - |

DNEL inhalatory exposure - Consumer (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | - | - | - | 1.64 |
| tetrasodium ethylene diamine tetraacetate | 1.2 | 1.2 | 0.6 | - |
| alkyl alcohol ethoxylate | - | - | - | - |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | No data available | No data available | 0.7 |
| sodium hydroxide | - | - | 1 | - |

**Environmental exposure**

Environmental exposure - PNEC

| Ingredient(s) | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | 0.0009 | 0.00096 | 0.00016 | 0.4 |
| tetrasodium ethylene diamine tetraacetate | 2.2 | 0.22 | 1.2 | 43 |
| alkyl alcohol ethoxylate | - | - | - | - |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | 0.001 | 0.0001 | 0.00015 | 1.33 |
| sodium hydroxide | - | - | - | - |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m³) |
|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | 12.27 | 13.09 | 7 | - |
| tetrasodium ethylene diamine tetraacetate | - | - | 0.72 | - |
| alkyl alcohol ethoxylate | - | - | - | - |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | 8.5 | 0.85 | 45.34 | - |
| sodium hydroxide | - | - | - | - |

**8.2 Exposure controls**

*The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.*
*If available, please refer to the product information sheet for application and handling instructions.*
*Normal use conditions are assumed for this section.*

*Recommended safety measures for handling the undiluted product:*
*Covering activities such as filling and transfer of product to application equipment, flasks or buckets*

**Appropriate engineering controls:** If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

**Personal protective equipment**

**Eye / face protection:** Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

**Hand protection:** Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

**Body protection:** Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may

occur (EN 14605).

**Respiratory protection:** Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

*Recommended safety measures for handling the diluted product:*

**Recommended maximum concentration (%):** 0.5

**Appropriate engineering controls:** Provide a good standard of general ventilation.
**Appropriate organisational controls:** No special requirements under normal use conditions.

**Personal protective equipment**
**Eye / face protection:** No special requirements under normal use conditions.
**Hand protection:** No special requirements under normal use conditions.
**Body protection:** No special requirements under normal use conditions.
**Respiratory protection:** No special requirements under normal use conditions.

**Environmental exposure controls:** No special requirements under normal use conditions.

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**
**Information in this section refers to the product, unless it is specifically stated that substance data is listed**

**Method / remark**

**Physical State:** Liquid
**Colour:** Clear, Yellow
**Odour:** Product specific
**Odour threshold:** Not applicable
**pH** > 11 (neat) — ISO 4316
**Melting point/freezing point (°C):** Not determined — Not relevant to classification of this product
**Initial boiling point and boiling range (°C):** Not determined — See substance data

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | > 107 | Method not given | |
| tetrasodium ethylene diamine tetraacetate | No data available | Non-experimental data | |
| alkyl alcohol ethoxylate | > 232.2 | Method not given | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | |
| sodium hydroxide | > 990 | Method not given | |

**Method / remark**

**Flammability (liquid):** Not flammable.
**Flash point (°C):** not determined — open cup
**Sustained combustion:** Not applicable.
*( UN Manual of Tests and Criteria, section 32, L.2 )*
**Evaporation rate:** Not determined — Not relevant to classification of this product
**Flammability (solid, gas):** Not applicable to liquids
**Upper/lower flammability limit (%):** Not determined — See substance data

Substance data, flammability or explosive limits, if available:

| Ingredient(s) | Lower limit (% vol) | Upper limit (% vol) |
|---|---|---|
| alkyldimethylbenzylammoniumchloride | - | - |

**Method / remark**

**Vapour pressure:** Not determined — See substance data

Substance data, vapour pressure

| Ingredient(s) | Value (Pa) | Method | Temperature (°C) |
|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | 2300 | Method not given | 20 |
| tetrasodium ethylene diamine tetraacetate | 0.0000000002 | Read across | 25 |
| alkyl alcohol ethoxylate | < 10 | Method not given | 37.8 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | |
| sodium hydroxide | < 1330 | Method not given | 20 |

**Method / remark**

**Vapour density:** Not determined — Not relevant to classification of this product
**Relative density:** ≈ 1.05 (20 °C) — OECD 109 (EU A.3)
**Solubility in / Miscibility with Water:** Fully miscible

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | Soluble | Method not given | |
| tetrasodium ethylene diamine tetraacetate | 500 | Method not given | 20 |
| alkyl alcohol ethoxylate | 100 Soluble | Method not given | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | Soluble | | |
| sodium hydroxide | 1000 | Method not given | 20 |

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

**Method / remark**

**Autoignition temperature:** Not determined
**Decomposition temperature:** Not applicable.
**Viscosity:** Not determined
**Explosive properties:** Not explosive.
**Oxidising properties:** Not oxidising.

**9.2 Other information**
**Surface tension (N/m):** Not determined — Not relevant to classification of this product
**Corrosion to metals:** Corrosive — Weight of evidence

Substance data, dissociation constant, if available:

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**
Stable under normal storage and use conditions.

**10.3 Possibility of hazardous reactions**
No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**
None known under normal storage and use conditions.

**10.5 Incompatible materials**
Reacts with acids.

**10.6 Hazardous decomposition products**
None known under normal storage and use conditions.

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

Mixture data:.

**Relevant calculated ATE(s):**
ATE - Oral (mg/kg): 2000
ATE - Inhalatory, mists (mg/l): >5

Substance data, where relevant and available, are listed below:.

**Acute toxicity**
Acute oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | $LD_{50}$ | 398 | Rat | | |
| tetrasodium ethylene diamine tetraacetate | $LD_{50}$ | 1780 | Rat | OECD 401 (EU B.1) | |
| alkyl alcohol ethoxylate | $LD_{50}$ | 1400 | Rat | Method not given | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | $LD_{50}$ | 261 | Rat | Method not given | |
| sodium hydroxide | | No data available | | | |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | $LD_{50}$ | 3412 | Rabbit | Method not given | |
| tetrasodium ethylene diamine tetraacetate | $LD_{50}$ | > 5000 | Rabbit | Method not given | |
| alkyl alcohol ethoxylate | $LD_{50}$ | 2000 - 5000 | Rat | Method not given | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | $LD_{50}$ | > 2000 | Rat | OECD 402 (EU B.3) | |
| sodium hydroxide | $LD_{50}$ | 1350 | Rabbit | Method not given | |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | | No data available | | | |
| tetrasodium ethylene diamine tetraacetate | $LC_{50}$ | ≥ 1-5 (dust) | Rat | OECD 403 (EU B.2) | 6 |
| alkyl alcohol ethoxylate | | No data available | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | |
| sodium hydroxide | | No data available | | | |

### Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | Corrosive | Rabbit | Method not given | |
| tetrasodium ethylene diamine tetraacetate | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| alkyl alcohol ethoxylate | Not irritant | | Method not given | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | Corrosive | Rabbit | OECD 404 (EU B.4) | 4 hour(s) |
| sodium hydroxide | Corrosive | Rabbit | Method not given | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | Severe damage | | Method not given | |
| tetrasodium ethylene diamine tetraacetate | Severe damage | | Method not given | |
| alkyl alcohol ethoxylate | Severe damage | Rabbit | Method not given | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | | |
| sodium hydroxide | Corrosive | Rabbit | Method not given | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | No data available | | | |
| tetrasodium ethylene diamine tetraacetate | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | | |
| sodium hydroxide | No data available | | | |

### Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test | |
| tetrasodium ethylene diamine tetraacetate | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| alkyl alcohol ethoxylate | Not sensitising | Guinea pig | Method not given | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test | |
| sodium hydroxide | Not sensitising | | Human repeated patch test | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | No data available | | | |
| tetrasodium ethylene diamine tetraacetate | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | | |
| sodium hydroxide | No data available | | | |

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

| Ingredient(s) | Result (in-vitro) | Method (in-vitro) | Result (in-vivo) | Method (in-vivo) |
|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | No evidence of genotoxicity, negative test results | OECD 471 (EU B.12/13) OECD 476 OECD 473 | No evidence of genotoxicity, negative test results | OECD 474 (EU B.12) |
| tetrasodium ethylene diamine tetraacetate | No evidence for mutagenicity, negative test results | Method not given | No evidence of genotoxicity, negative test results | Method not given |
| alkyl alcohol ethoxylate | No evidence for mutagenicity, negative test results | OECD 473 | No data available | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) OECD | No data available | |

| | | | | |
|---|---|---|---|---|
| | | 473 OECD 476 | | |
| sodium hydroxide | No evidence for mutagenicity, negative test results | DNA repair test on rat hepatocytes OECD 473 | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) OECD 475 (EU B.11) |

Carcinogenicity

| Ingredient(s) | Effect |
|---|---|
| alkyldimethylbenzylammoniumchloride | No data available |
| tetrasodium ethylene diamine tetraacetate | No evidence for carcinogenicity, weight-of-evidence |
| alkyl alcohol ethoxylate | No evidence for carcinogenicity, negative test results |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available |
| sodium hydroxide | No evidence for carcinogenicity, weight-of-evidence |

Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|---|---|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | | | No data available | | | | |
| tetrasodium ethylene diamine tetraacetate | | | No data available | | | | No evidence for reproductive toxicity |
| alkyl alcohol ethoxylate | NOAEL | | > 250 | Rat | Not known | | No effects on fertility No developmental toxicity |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | | No data available | | | | No evidence for reproductive toxicity |
| sodium hydroxide | | | No data available | | | | No evidence for developmental toxicity No evidence for reproductive toxicity |

**Repeated dose toxicity**

Sub-acute or sub-chronic oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | | No data available | | | | |
| tetrasodium ethylene diamine tetraacetate | | No data available | | | | |
| alkyl alcohol ethoxylate | NOAEL | 80 - 400 | | Method not given | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |

Sub-chronic dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | | No data available | | | | |
| tetrasodium ethylene diamine tetraacetate | | No data available | | | | |
| alkyl alcohol ethoxylate | NOAEL | 80 | | OECD 411 (EU B.28) | 90 | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |

Sub-chronic inhalation toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | | No data available | | | | |
| tetrasodium ethylene diamine tetraacetate | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |

Chronic toxicity

| Ingredient(s) | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|---|---|---|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | | | No data available | | | | | |
| tetrasodium ethylene diamine tetraacetate | | | No data available | | | | | |
| alkyl alcohol ethoxylate | | | No data available | | | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | | No data available | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| sodium hydroxide | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| alkyldimethylbenzylammoniumchloride | No data available |
| tetrasodium ethylene diamine tetraacetate | No data available |
| alkyl alcohol ethoxylate | No data available |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | Not applicable |
| sodium hydroxide | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| alkyldimethylbenzylammoniumchloride | No data available |
| tetrasodium ethylene diamine tetraacetate | Respiratory tract |
| alkyl alcohol ethoxylate | No data available |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | Kidneys |
| sodium hydroxide | No data available |

**Aspiration hazard**
Substances with an aspiration hazard (H304), if any, are listed in section 3.

**Potential adverse health effects and symptoms**
Effects and symptoms related to the product, if any, are listed in subsection 4.2.

## SECTION 12: Ecological information

### 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

**Aquatic short-term toxicity**

Aquatic short-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | $LC_{50}$ | 0.515 | *Fish* | Method not given | 96 |
| tetrasodium ethylene diamine tetraacetate | $LC_{50}$ | > 100 | *Lepomis macrochirus* | OPP 72-1, static (EPA) | 96 |
| alkyl alcohol ethoxylate | $LC_{50}$ | 5 - 7 | *Fish* | 92/69/EEC, C1, semi-static | 96 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | $LC_{50}$ | 0.45 | *Lepomis macrochirus* | OPP 72-1, static (EPA) | 96 |
| sodium hydroxide | $LC_{50}$ | 35 | *Various species* | Method not given | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | $EC_{50}$ | 0.016 | *Daphnia* | Method not given | 48 |
| tetrasodium ethylene diamine tetraacetate | $EC_{50}$ | 140 | *Daphnia magna Straus* | DIN 38412, Part 11 | 48 |
| alkyl alcohol ethoxylate | $EC_{50}$ | 5.3 | *Daphnia* | 92/69/EEC | 48 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | $EC_{50}$ | 0.073 | *Daphnia magna Straus* | EPA-OPPTS 850.1010 OECD 202 (EU C.2) | 48 |
| sodium hydroxide | $EC_{50}$ | 40.4 | *Ceriodaphnia sp.* | Method not given | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | $EC_{50}$ | 0.02 | *Selenastrum capricornutum* | OECD 201 (EU C.3) | 72 |
| tetrasodium ethylene diamine tetraacetate | $EC_{50}$ | > 100 | *Scenedesmus obliquus* | 88/302/EEC, Part C, static | 72 |
| alkyl alcohol ethoxylate | $EC_{50}$ | 1.4 - 47 | *Not specified* | 92/69/EEC | 72 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | $E_r C_{50}$ | 0.054 | *Pseudokirchneriella subcapitata* | EPA OPPTS 850.5400 | 96 |
| sodium hydroxide | $EC_{50}$ | 22 | *Photobacterium phosphoreum* | Method not given | 0.25 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | | No data available | | | - |
| tetrasodium ethylene diamine tetraacetate | | No data available | | | - |
| alkyl alcohol ethoxylate | | No data | | | - |

| | | | | | |
|---|---|---|---|---|---|
| | | available | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | - |
| sodium hydroxide | | No data available | | | - |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | $EC_{20}$ | 5 | *Activated sludge* | OECD 209 | 0.5 hour(s) |
| tetrasodium ethylene diamine tetraacetate | $EC_{20}$ | > 500 | *Activated sludge* | OECD 209 | 0.5 hour(s) |
| alkyl alcohol ethoxylate | $EC_{50}$ | > 140 | *Bacteria* | Method not given | 3 hour(s) |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | $EC_{50}$ | 18 | *Activated sludge* | OECD 209 | 3 hour(s) |
| sodium hydroxide | | No data available | | | |

### Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | | No data available | | | | |
| tetrasodium ethylene diamine tetraacetate | NOEC | > 25.7 | *Brachydanio rerio* | OECD 210 | 35 day(s) | |
| alkyl alcohol ethoxylate | $EC_{10}$ | 8.983 | *Not specified* | Method not given | 21 day(s) | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | NOEC | 0.025 | *Daphnia magna* | OECD 211 | 21 day(s) | |
| tetrasodium ethylene diamine tetraacetate | NOEC | 25 | *Daphnia magna* | OECD 211 | 21 day(s) | |
| alkyl alcohol ethoxylate | $EC_{10}$ | 2.579 | *Daphnia sp.* | Method not given | 21 day(s) | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | NOEC | 0.024 | *Daphnia magna* | OECD 211 | 21 day(s) | |
| sodium hydroxide | | No data available | | | | |

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | | No data available | | | - | |
| tetrasodium ethylene diamine tetraacetate | | No data available | | | - | |
| alkyl alcohol ethoxylate | | No data available | | | - | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | - | |
| sodium hydroxide | | No data available | | | - | |

### Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | | No data available | | | - | |
| tetrasodium ethylene diamine tetraacetate | $LD_{50}$ | 156 | *Eisenia fetida* | OECD 207 | 14 | |
| alkyl alcohol ethoxylate | | No data available | | | - | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | $LD_{50}$ | > 1000 | *Eisenia fetida* | OECD 207 | 14 | |
| sodium hydroxide | | No data available | | | - | |

Terrestrial toxicity - plants, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | | No data available | | | - | |
| tetrasodium ethylene diamine tetraacetate | NOEC | 0.25 - 1.25 | | | 21 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| alkyl alcohol ethoxylate | | No data available | | | - | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | - | |
| sodium hydroxide | | No data available | | | - | |

Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | | No data available | | | - | |
| tetrasodium ethylene diamine tetraacetate | | No data available | | | - | |
| alkyl alcohol ethoxylate | | No data available | | | - | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | - | |
| sodium hydroxide | | No data available | | | - | |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | | No data available | | | - | |
| tetrasodium ethylene diamine tetraacetate | | No data available | | | - | |
| alkyl alcohol ethoxylate | | No data available | | | - | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | - | |
| sodium hydroxide | | No data available | | | - | |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | | No data available | | | - | |
| tetrasodium ethylene diamine tetraacetate | | No data available | | | - | |
| alkyl alcohol ethoxylate | | No data available | | | - | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | NOEC | 1000 | | | 28 | |
| sodium hydroxide | | No data available | | | - | |

### 12.2 Persistence and degradability

#### Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

| Ingredient(s) | Half-life time | Method | Evaluation | Remark |
|---|---|---|---|---|
| sodium hydroxide | 13 second(s) | Method not given | Rapidly photodegradable | |

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

#### Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | | Oxygen depletion | > 60% | Read across | Readily biodegradable |
| tetrasodium ethylene diamine tetraacetate | | | | | Not readily biodegradable. |
| alkyl alcohol ethoxylate | | | | OECD 301B | Readily biodegradable |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | Oxygen depletion | 79 % in 28 day(s) | OECD 301D | Readily biodegradable |
| sodium hydroxide | | | | | Not applicable (inorganic substance) |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | 2.88 | OECD 107 | No bioaccumulation expected | |
| tetrasodium ethylene diamine tetraacetate | -13 | Method not given | No bioaccumulation expected | |
| alkyl alcohol ethoxylate | 3.11 - 4.19 | Method not given | High potential for bioaccumulation | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | -0.66 | | No bioaccumulation expected | |

| | | | | |
|---|---|---|---|---|
| sodium hydroxide | No data available | | Not relevant, does not bioaccumulate | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | 0.5 | | Method not given | No bioaccumulation expected | |
| tetrasodium ethylene diamine tetraacetate | 1.8 | *Lepomis macrochirus* | Method not given | Low potential for bioaccumulation | |
| alkyl alcohol ethoxylate | < 500 | | Method not given | High potential for bioaccumulation | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | | | |
| sodium hydroxide | No data available | | | | |

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

| Ingredient(s) | Adsorption coefficient Log Koc | Desorption coefficient Log Koc(des) | Method | Soil/sediment type | Evaluation |
|---|---|---|---|---|---|
| alkyldimethylbenzylammoniumchloride | No data available | | | | |
| tetrasodium ethylene diamine tetraacetate | No data available | | | | Adsorption to solid soil phase is not expected |
| alkyl alcohol ethoxylate | No data available | | | | Potential for mobility in soil, soluble in water |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | | | |
| sodium hydroxide | No data available | | | | Mobile in soil |

**12.5 Results of PBT and vPvB assessment**

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

**12.5 Other adverse effects**

**12.6 Other adverse effects**

No other adverse effects known.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

**Waste from residues / unused products:** The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

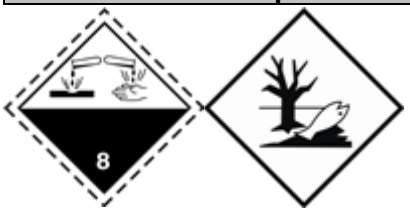
**European Waste Catalogue:** 16 03 05* - organic wastes containing dangerous substances.

**Empty packaging**

**Recommendation:** Dispose of observing national or local regulations.

**Suitable cleaning agents:** Water, if necessary with cleaning agent.

## SECTION 14: Transport information




**Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

**14.1 UN number:** 3267

**14.2 UN proper shipping name:**

Corrosive liquid, basic, organic, n.o.s. ( alkyldimethylbenzylammoniumchloride )

**14.3 Transport hazard class(es):**

**Transport hazard class (and subsidiary risks):** 8

**14.4 Packing group:** III

**14.5 Environmental hazards:**

**Environmentally hazardous:** Yes

**Marine pollutant:** Yes

**14.6 Special precautions for user:** None known.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** The product is not transported in bulk tankers.

**Other relevant information:**

**ADR**

**Classification code:** C7

**Tunnel restriction code:** E

**Hazard identification number:** 80

**IMO/IMDG**

**EmS:** F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulations:**
• Regulation (EC) No. 1907/2006 - REACH
• Regulation (EC) No 1272/2008 - CLP
• Regulation (EU) No 528/2012 on biocidal products

**Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):** Not applicable.

UFI: F796-R04S-3008-WPKG

**15.2 Chemical safety assessment**
A chemical safety assessment has not been carried out on the mixture

## SECTION 16: Other information

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MSDS6926 **Version:** 05.0 **Revision:** 2019-11-28

**Reason for revision:**
This data sheet contains changes from the previous version in section(s):, 2, 3, 4, 6, 7, 11, 16

**Classification procedure**
The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Full text of the H and EUH phrases mentioned in section 3:**
• H290 - May be corrosive to metals.
• H301 - Toxic if swallowed.
• H302 - Harmful if swallowed.
• H314 - Causes severe skin burns and eye damage.
• H318 - Causes serious eye damage.
• H332 - Harmful if inhaled.
• H373 - May cause damage to organs through prolonged or repeated exposure.
• H400 - Very toxic to aquatic life.
• H410 - Very toxic to aquatic life with long lasting effects.

**Abbreviations and acronyms:**
• AISE - The international Association for Soaps, Detergents and Maintenance Products
• DNEL - Derived No Effect Limit
• EUH - CLP Specific hazard statement
• PBT - Persistent, Bioaccumulative and Toxic
• PNEC - Predicted No Effect Concentration
• REACH number - REACH registration number, without supplier specific part
• vPvB - very Persistent and very Bioaccumulative
• ATE - Acute Toxicity Estimate
• LD50 - Lethal Dose, 50% / Median Lethal dose
• LC50 - Lethal Concentration, 50% / Median Lethal Concentration
• EC50 - effective concentration, 50%
• NOEL - No observed effect level
• NOAEL - No observed adverse effect level
• OECD - Organization for Economic Cooperation and Development

**End of Safety Data Sheet**